

FIGURE 1

Multi-tiered Screening For Spore Display

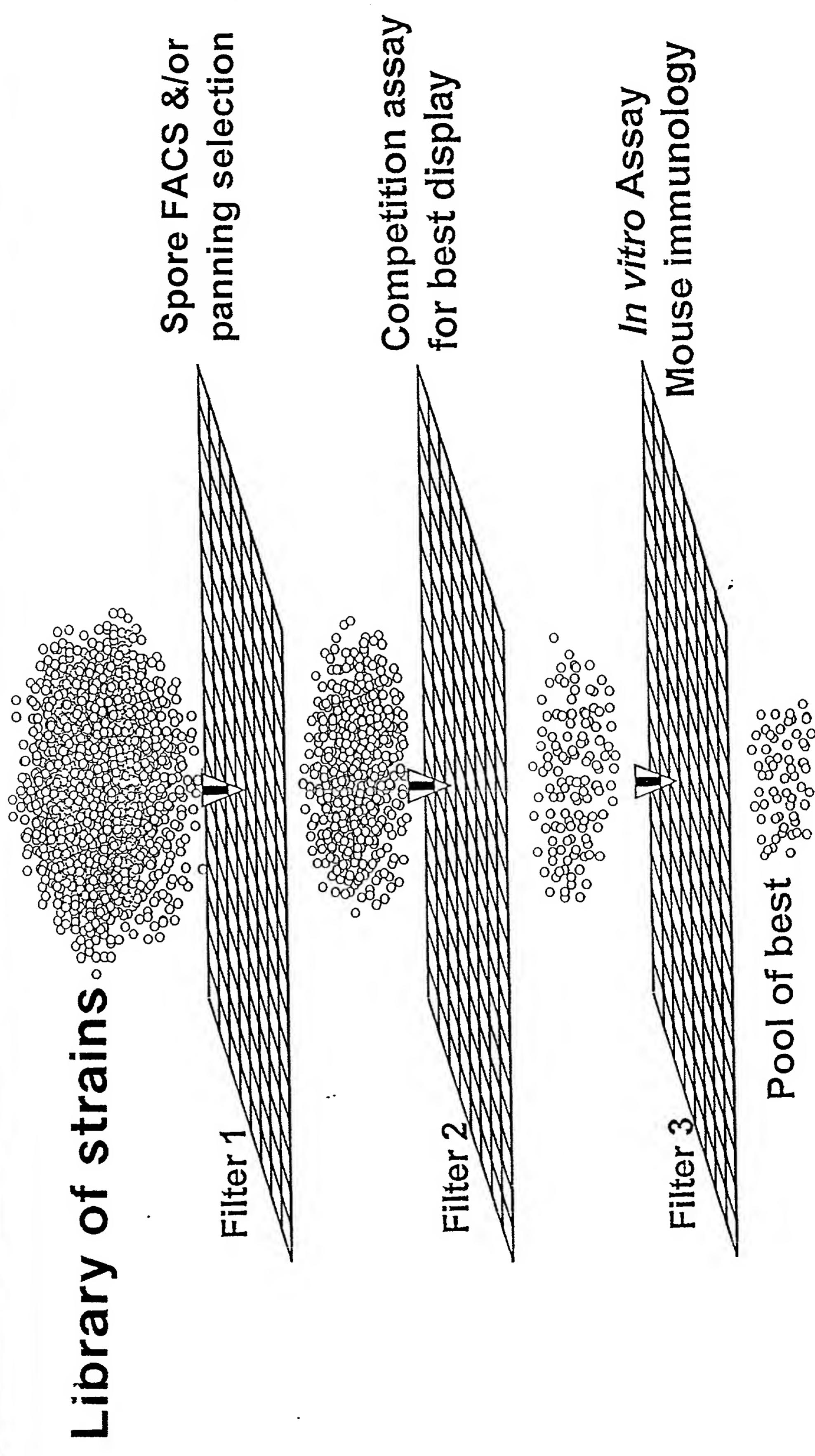
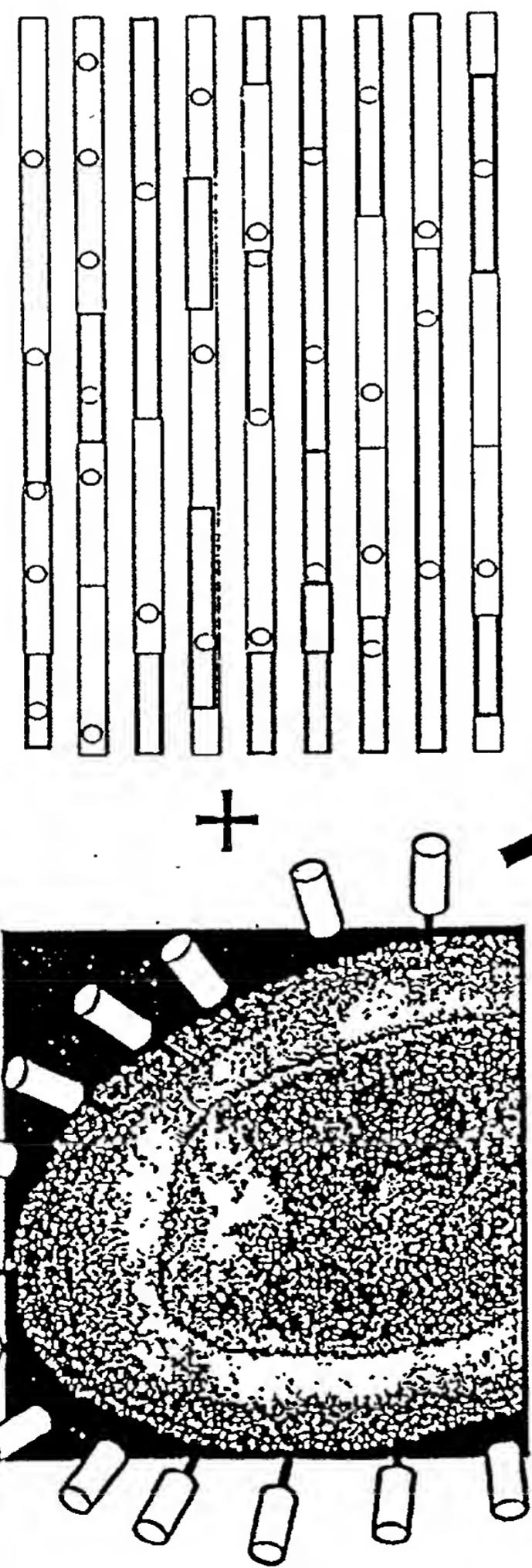


FIGURE 2. Spore Aerosol Vaccine Library

Spore Aerosol Vaccine Library



Combine display strains
and vaccine libraries

Spore display strain + Improved vaccine antigens

Panning assay for spore display

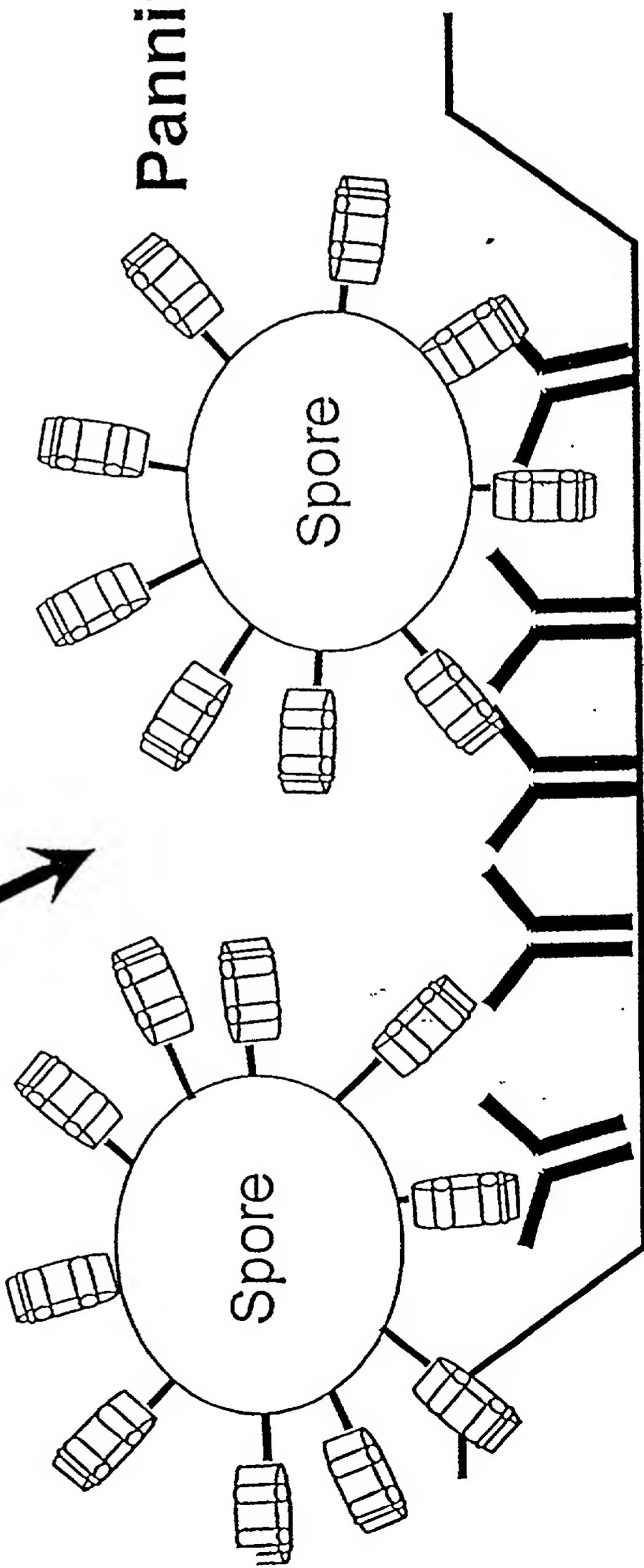
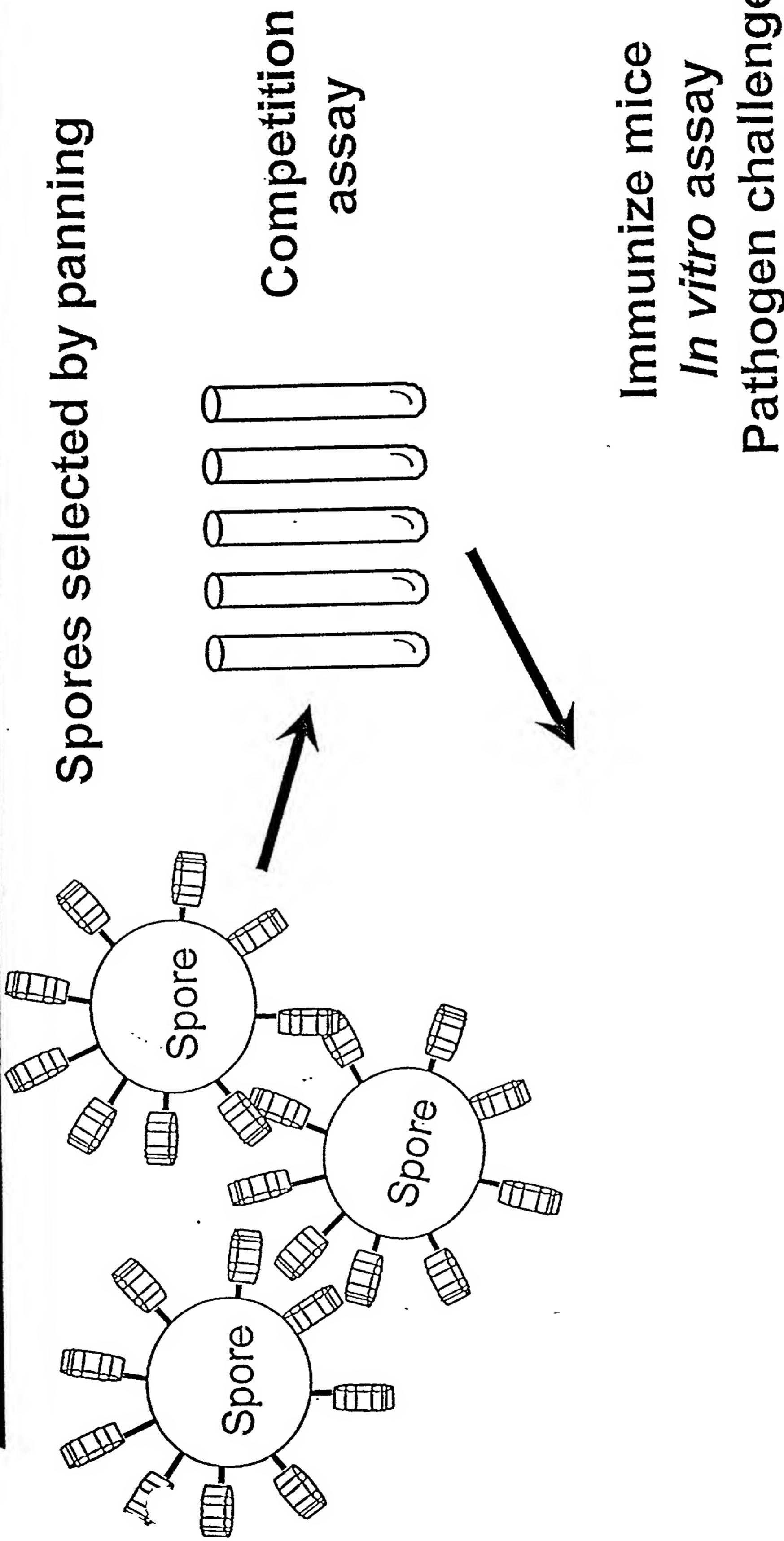


FIGURE 3. Spore Aerosol Vaccine Library

Spore Aerosol Vaccine Library

Spores selected by panning



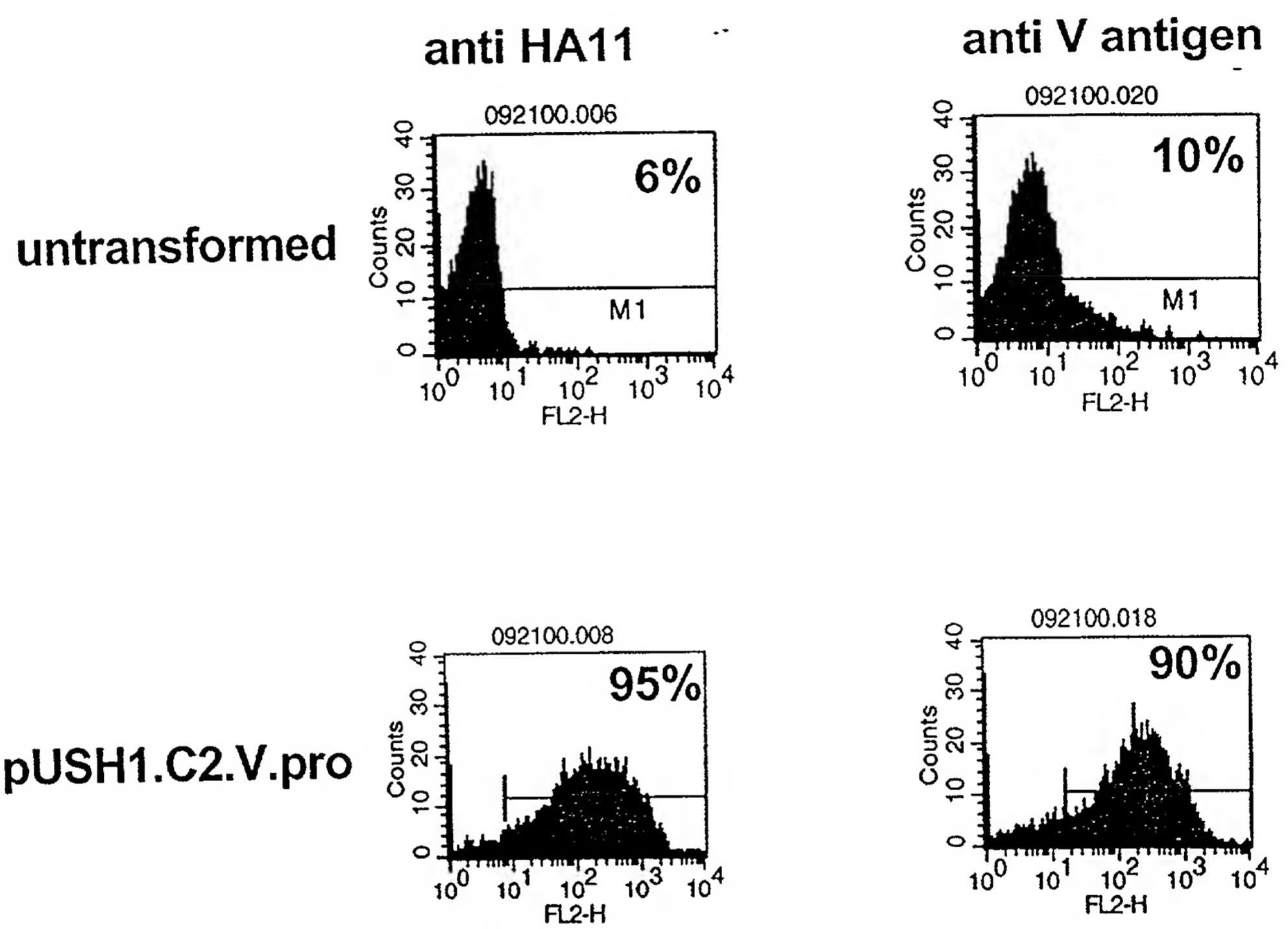


FIGURE 4

1 2 3 4

— — — —

- 98
- 62
I - 49
- 38
- 28
- 17
- 14
- 6
- 3

FIGURE 5

Fig 6 BALB/c response to recombinant V antigen displayed on spores

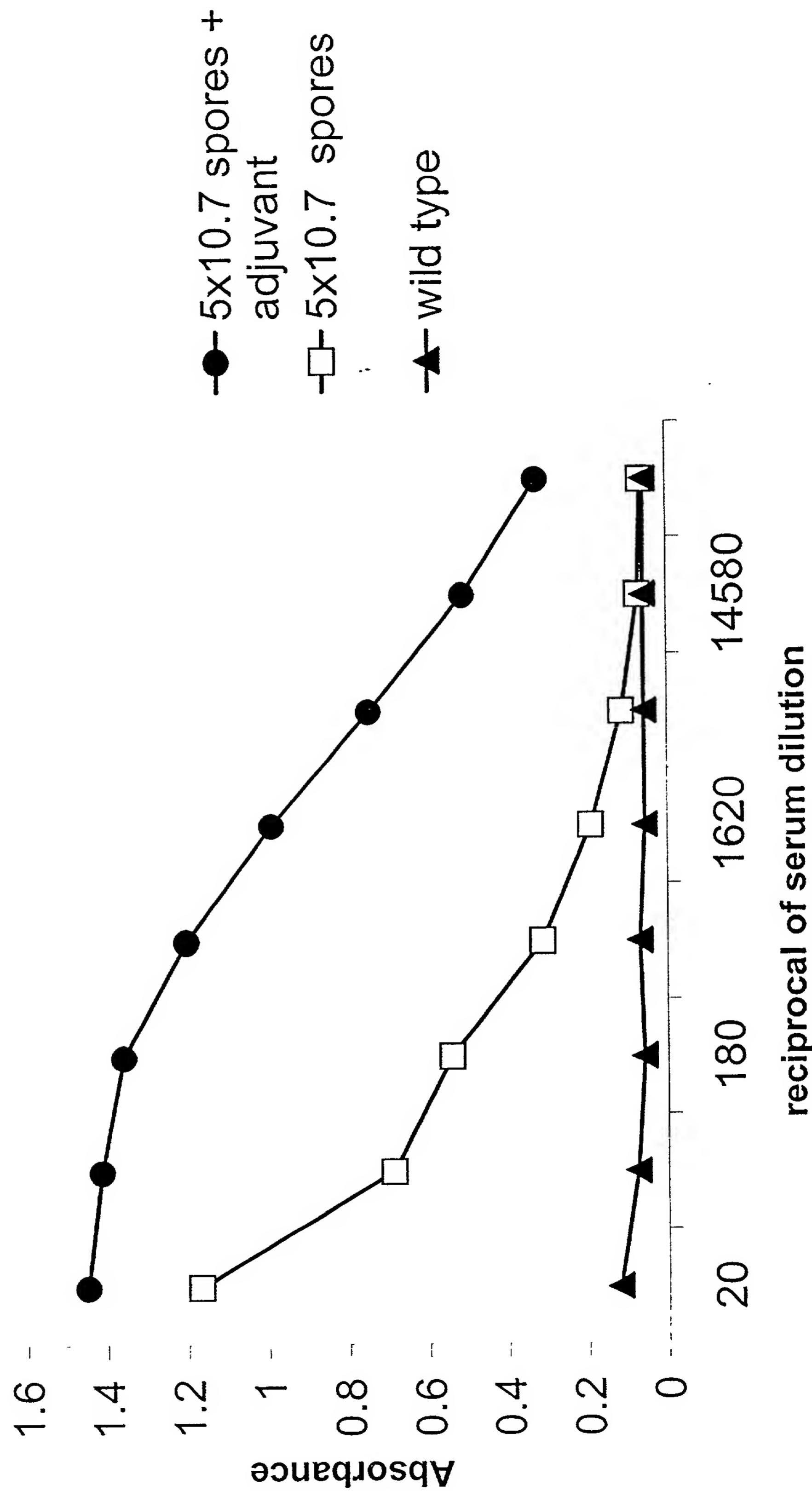
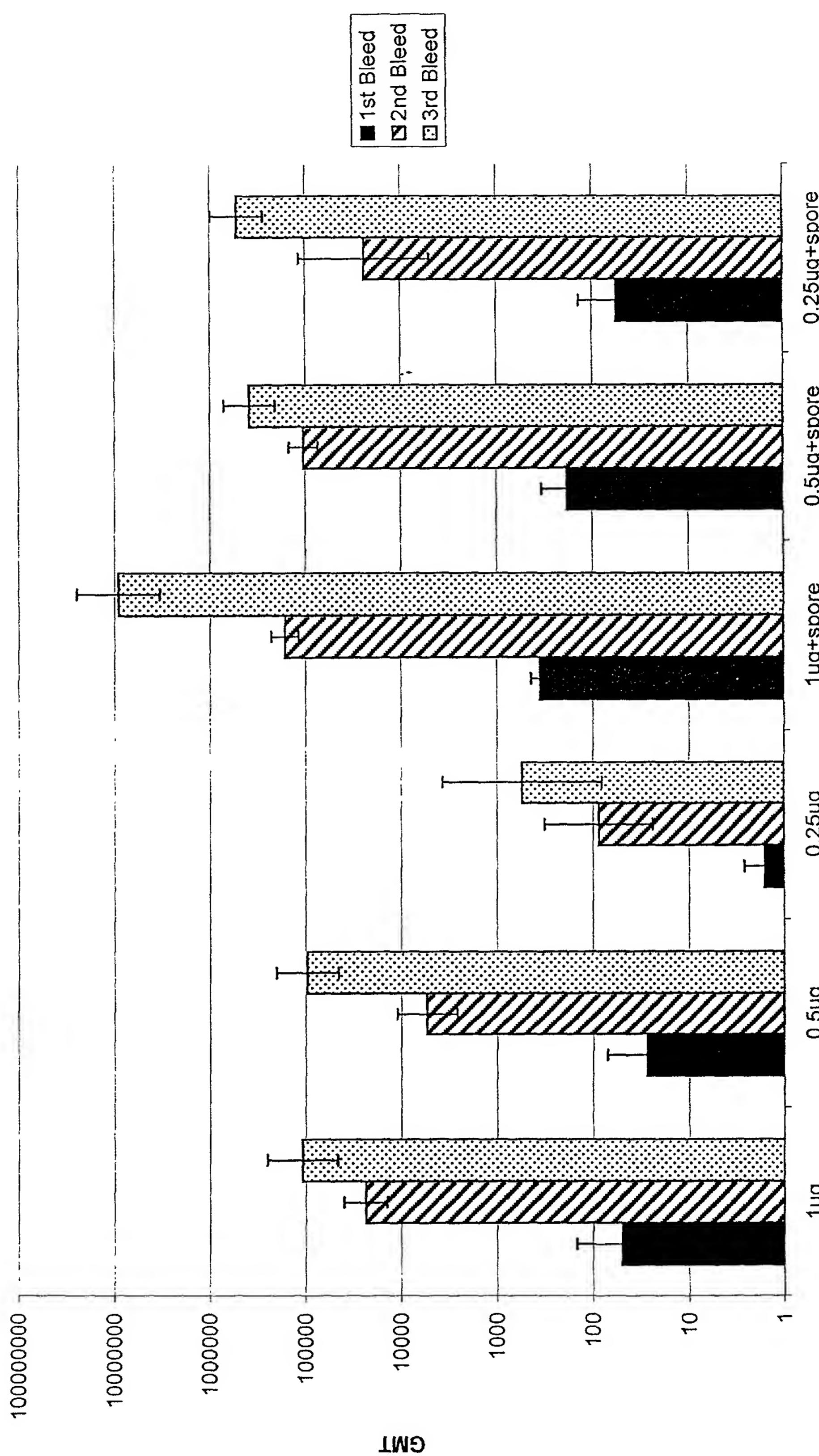


Fig 7 Adjuvant effect of spores on immune response to V antigen in BALB/c mice (n=10)



Lipase Activity of Spore-Displayed Lipase

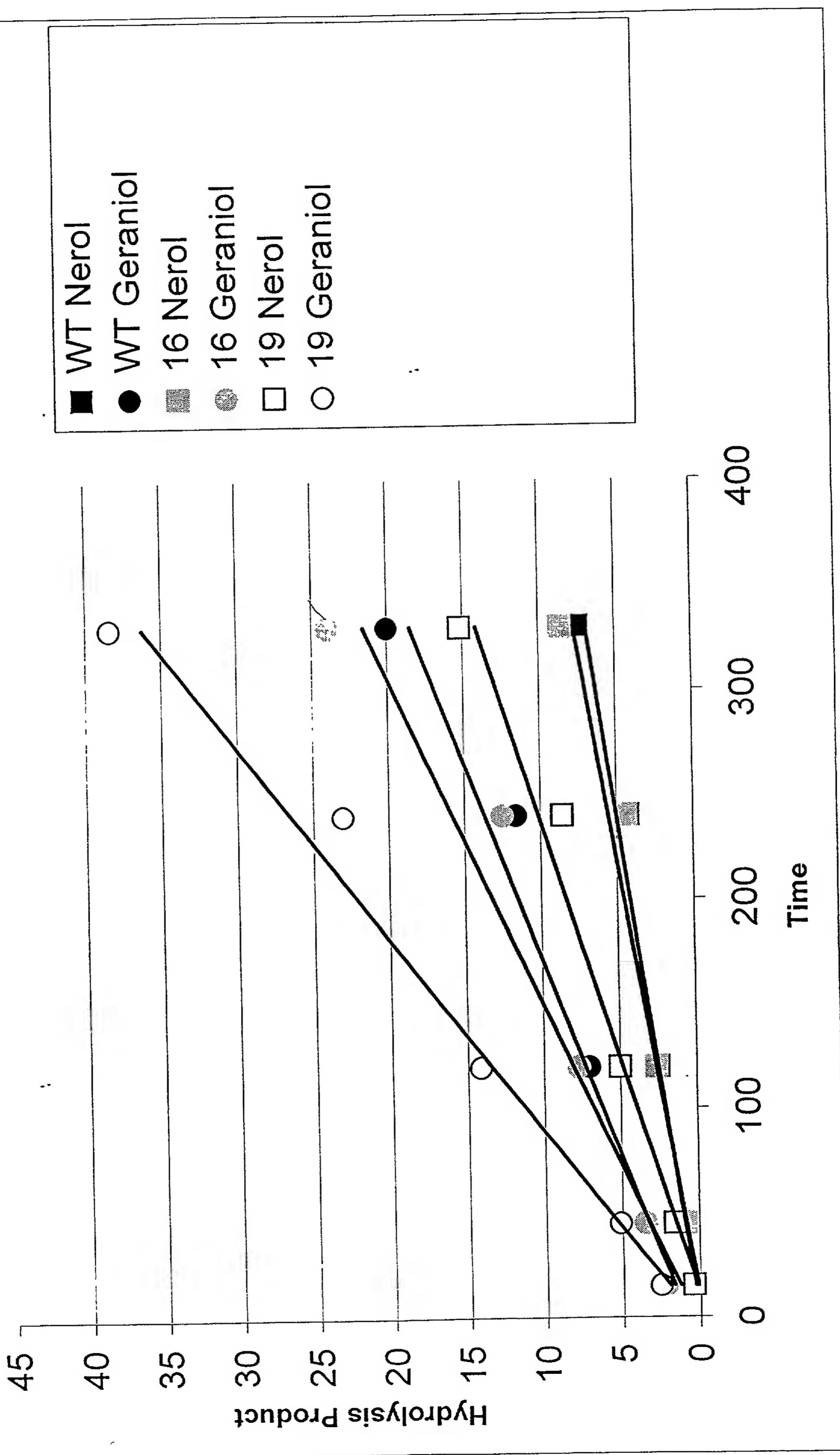


FIGURE 8

Serum anti-V antigen titers following oral immunization with recombinant spores

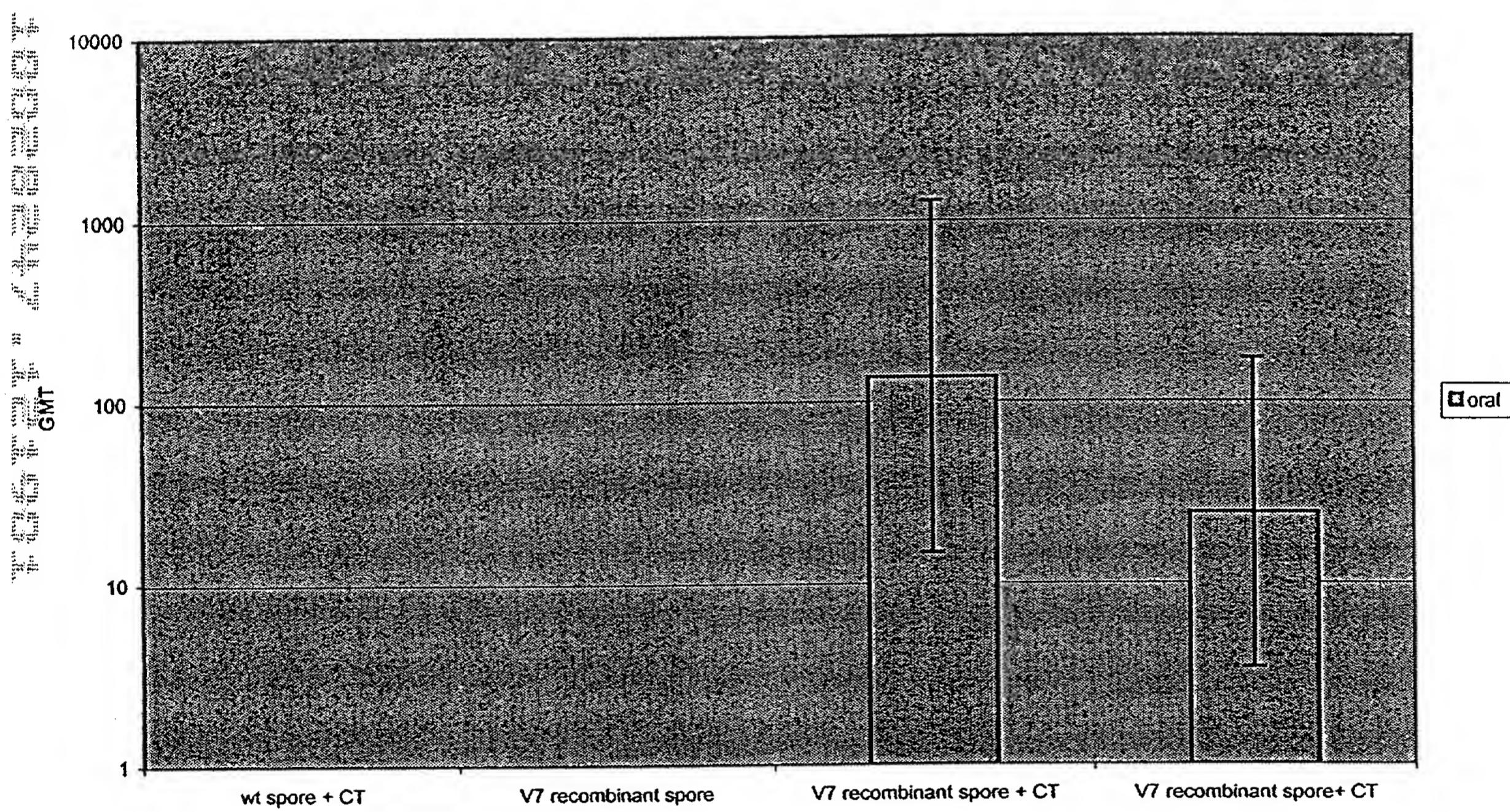


FIGURE 9

Serum anti-V antigen titers following nasal immunization with recombinant spores

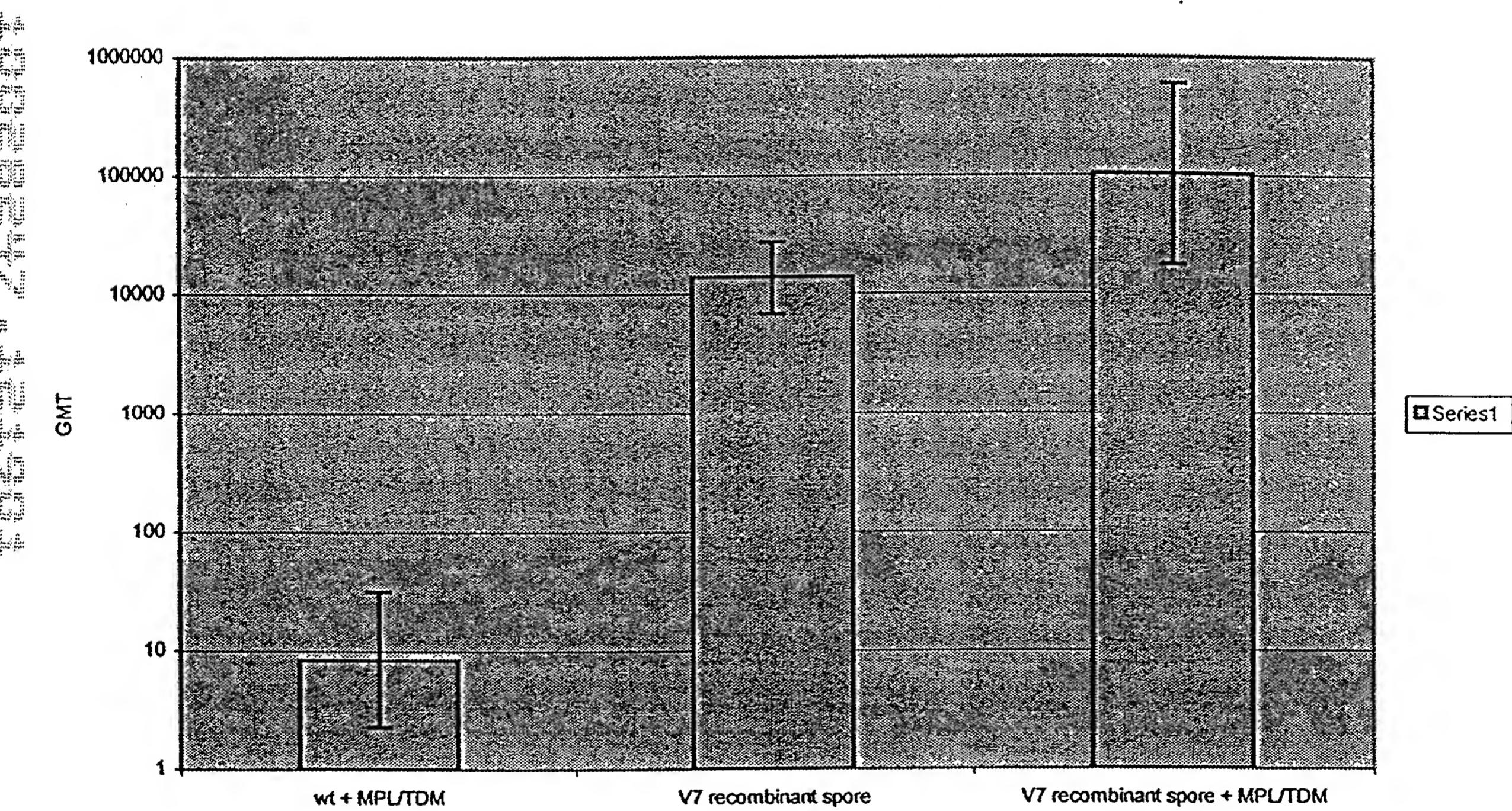


FIGURE 10

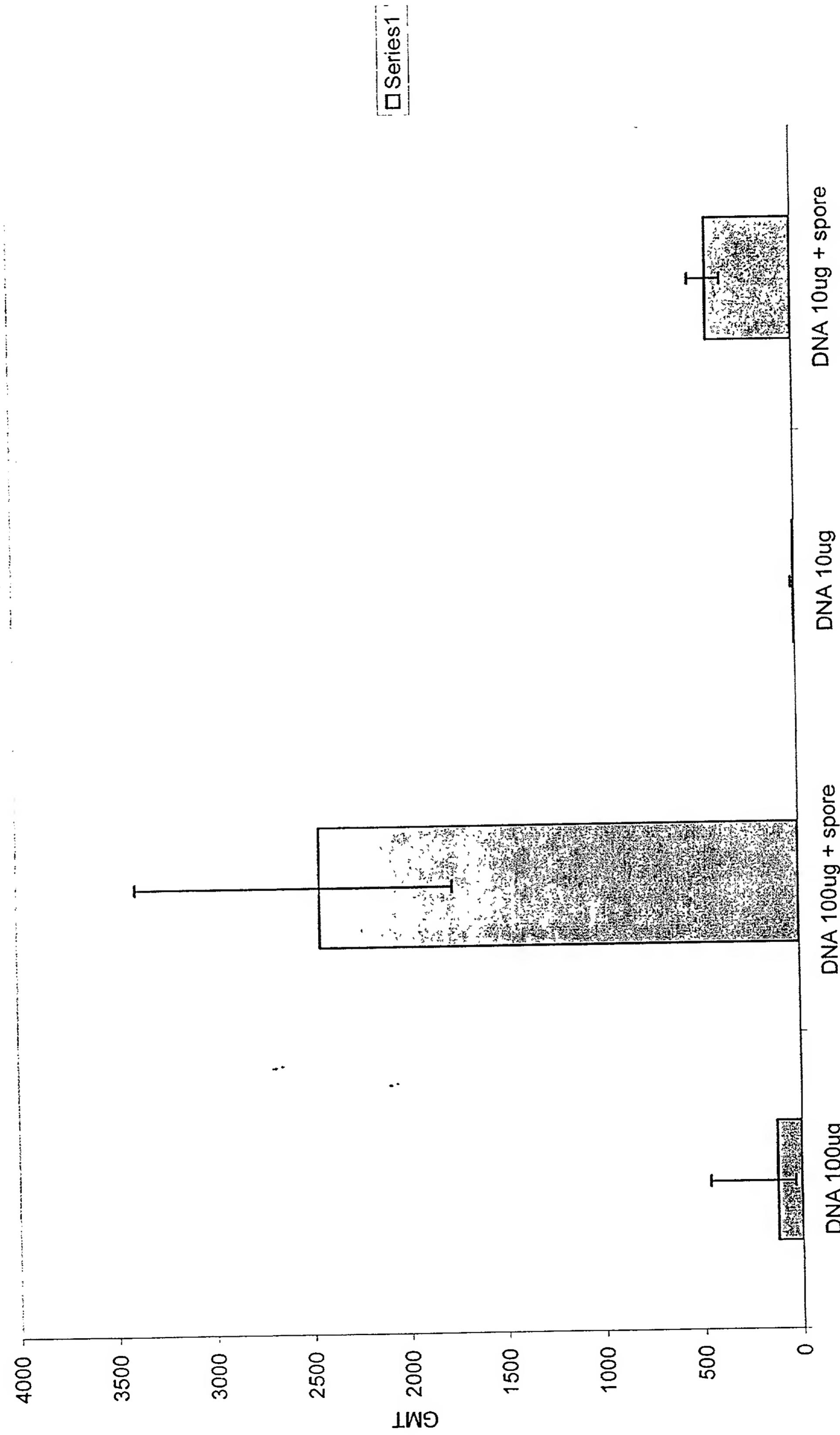


FIGURE 11

Figure 12

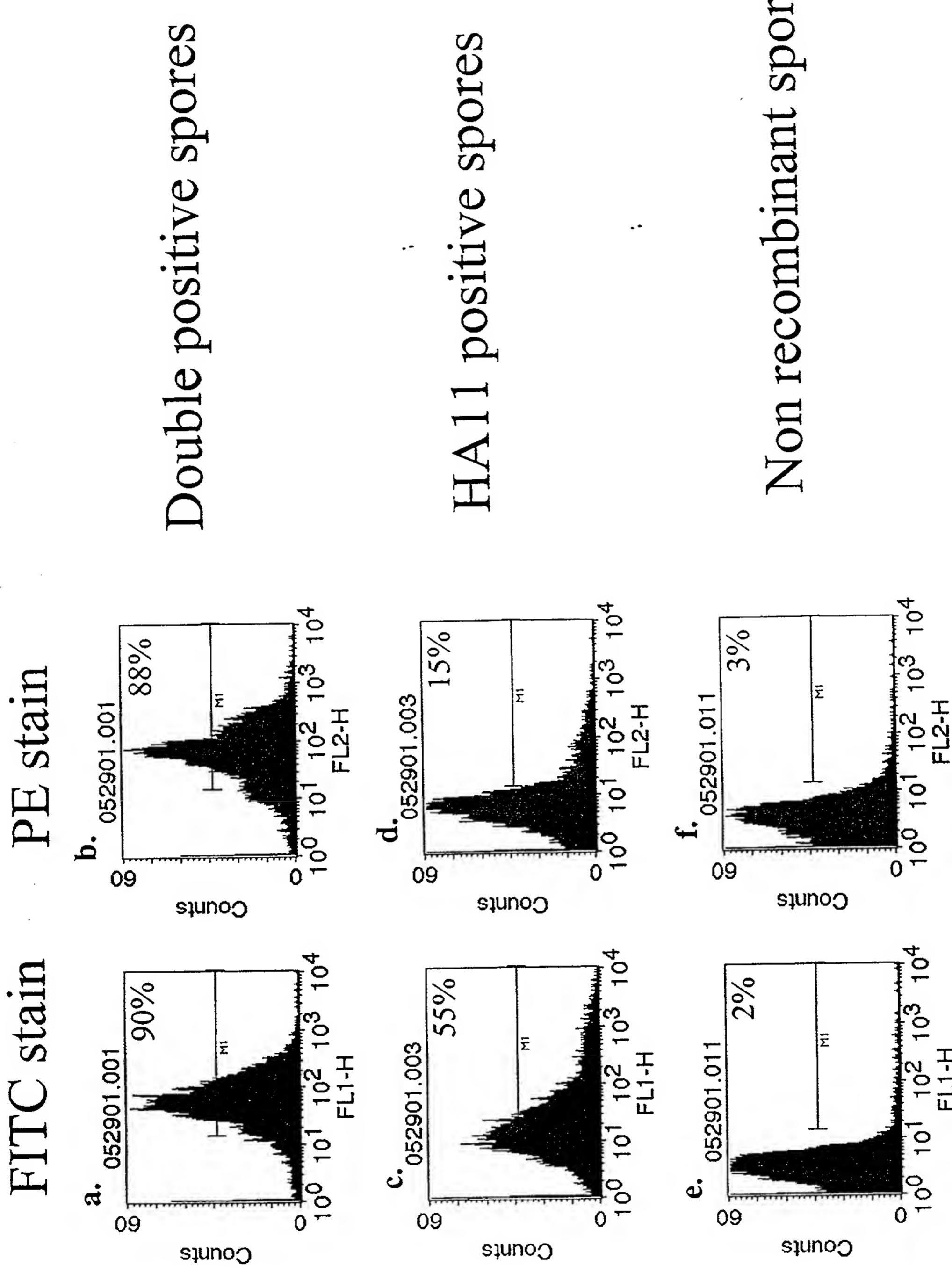
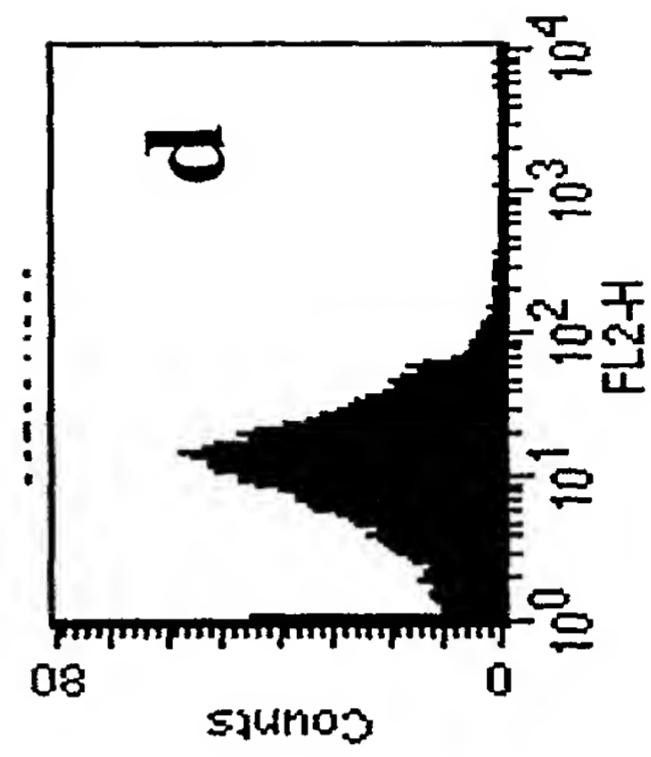
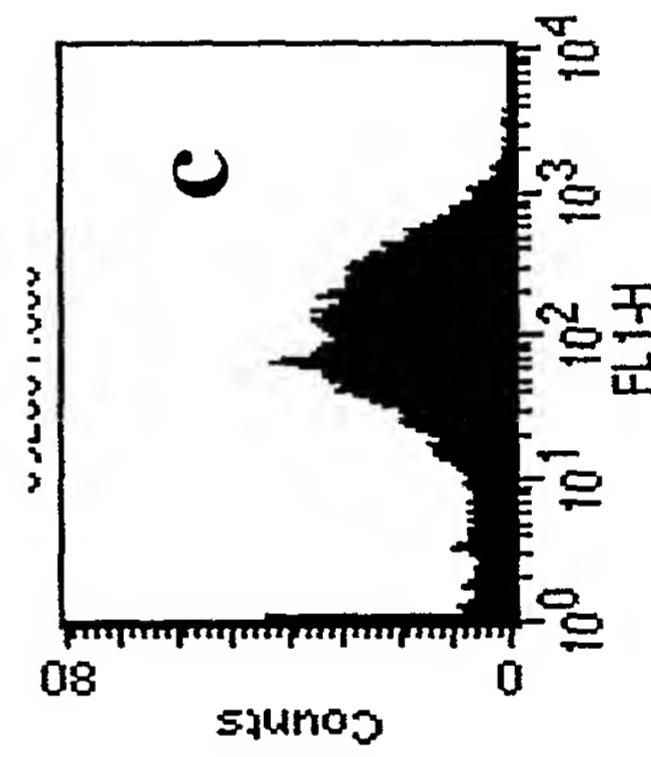
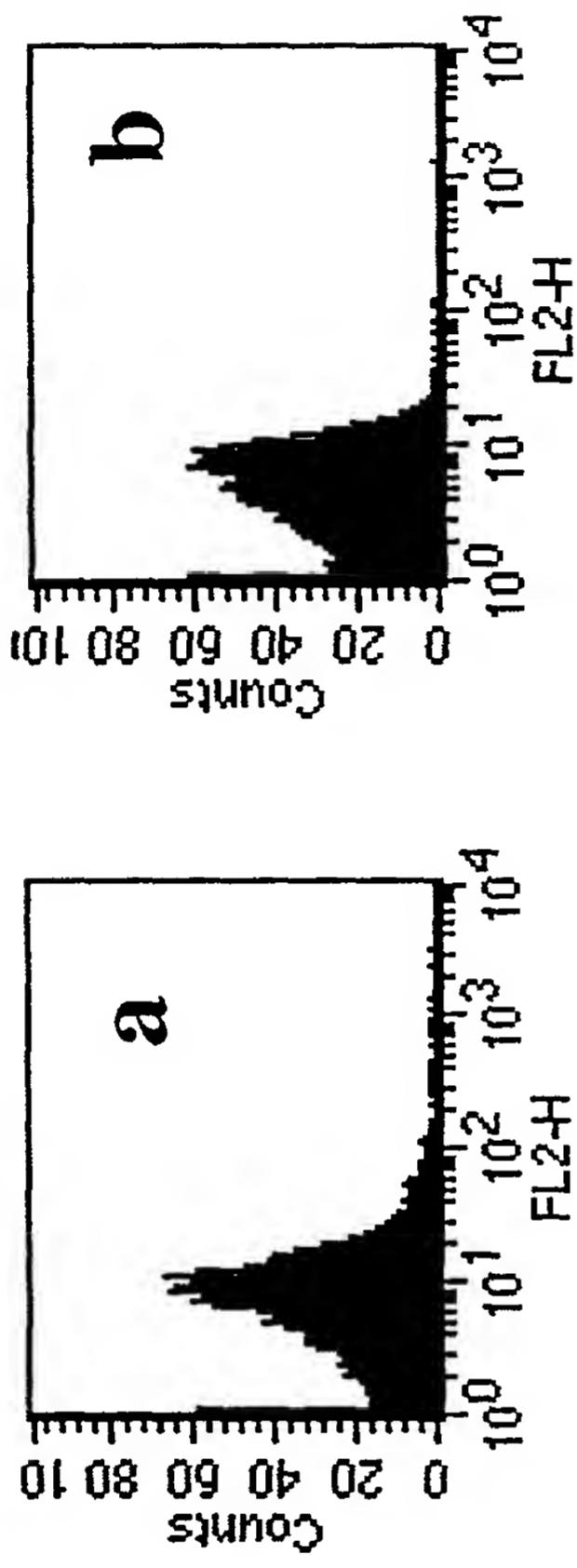


Fig 13

anti HA anti c-myc

wildtype



double display

Figure 14. Mice injected with V7 or V7-LT double display spores

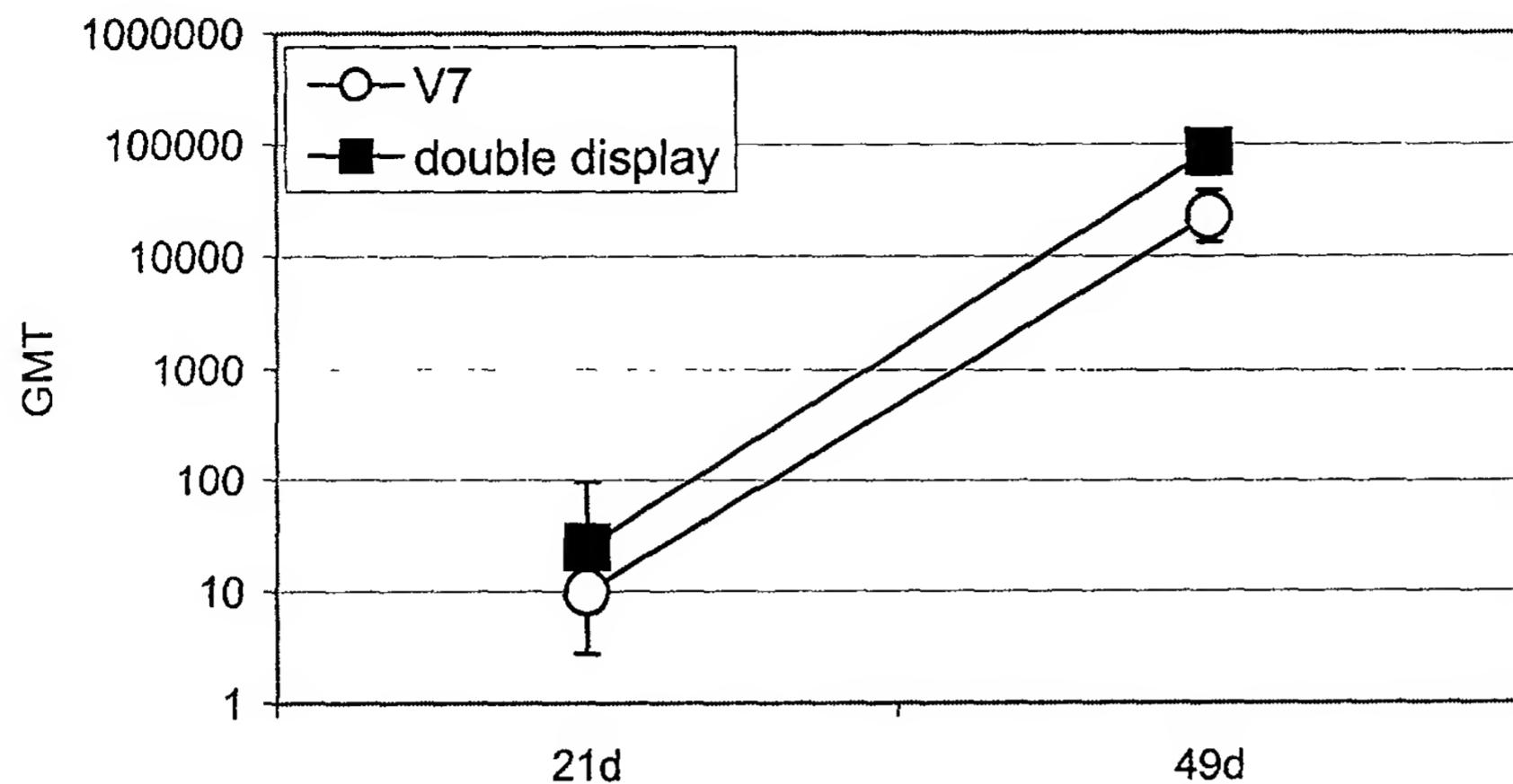


Figure 15. Responders to intranasal immunization

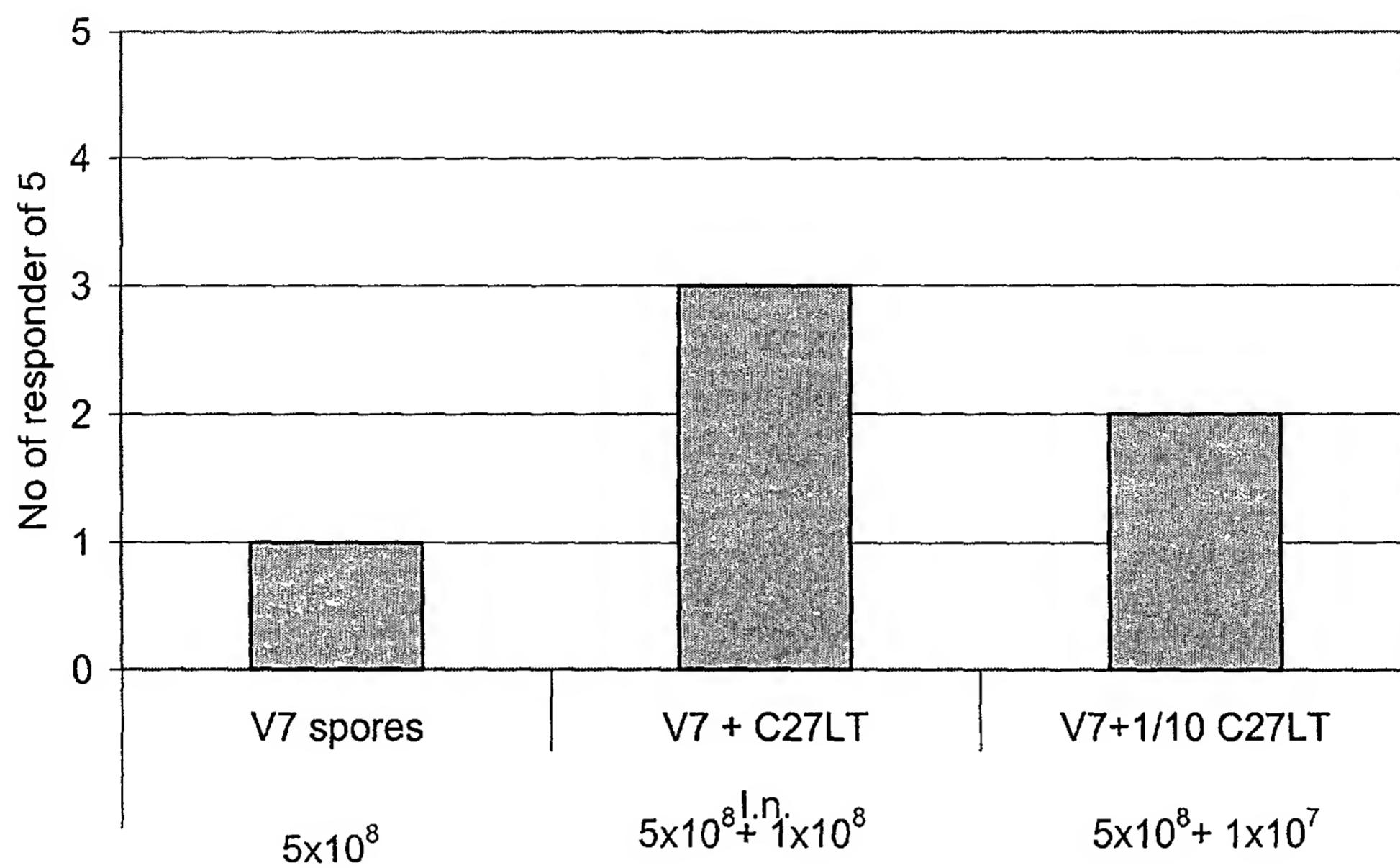


Figure 16. Serum anti V Ag titers in intranasally immunized mice

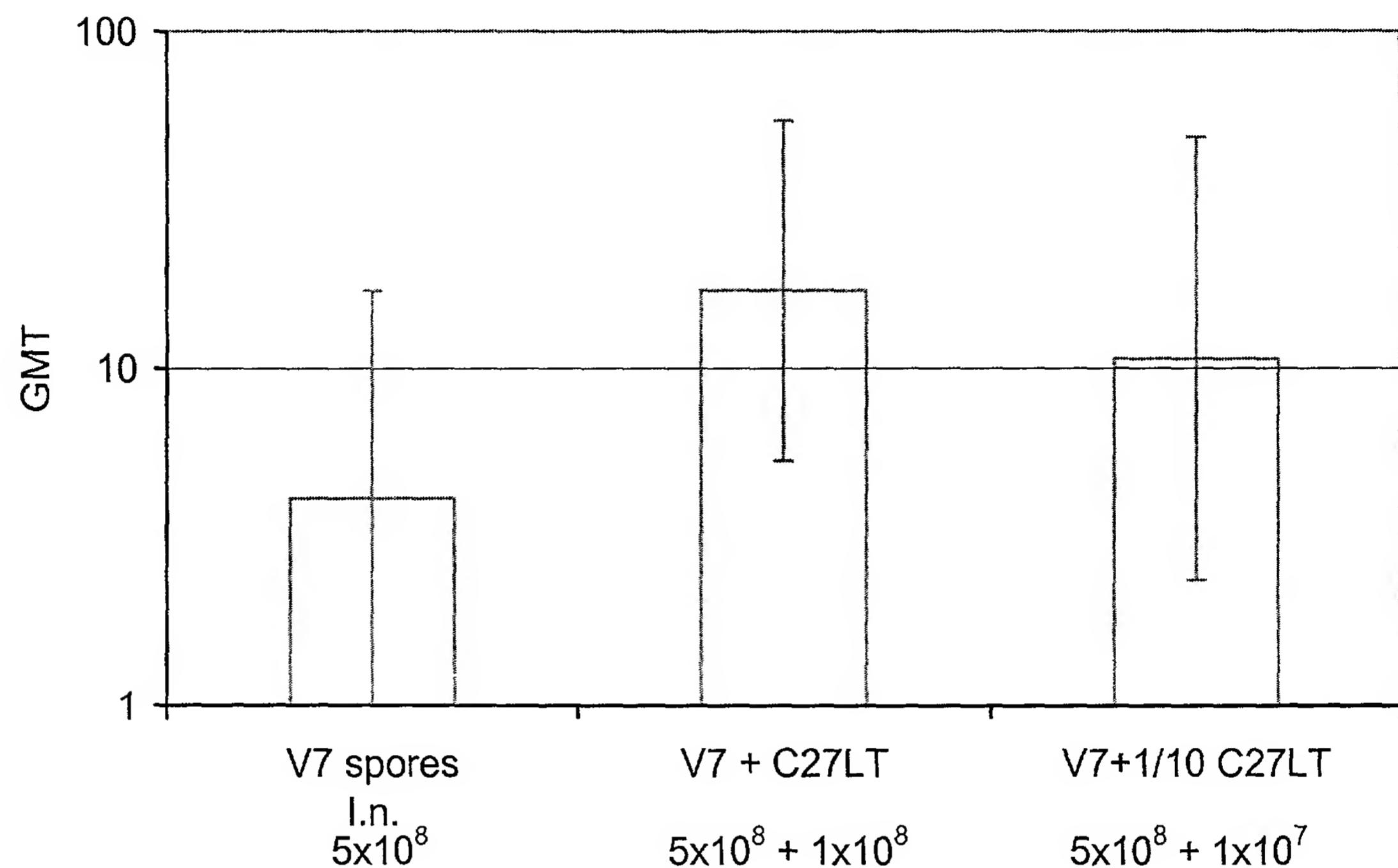


Figure 17

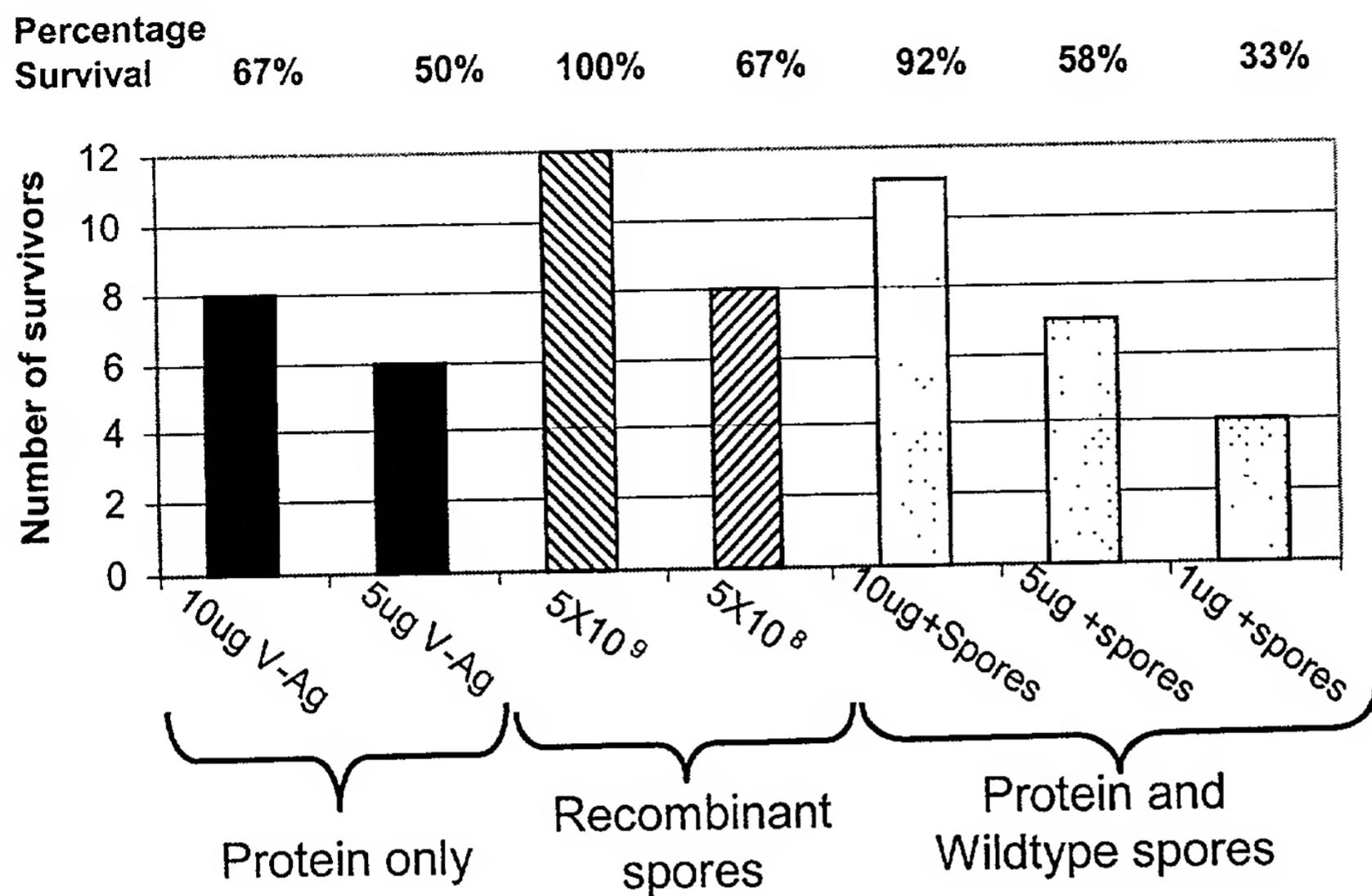


Figure 18

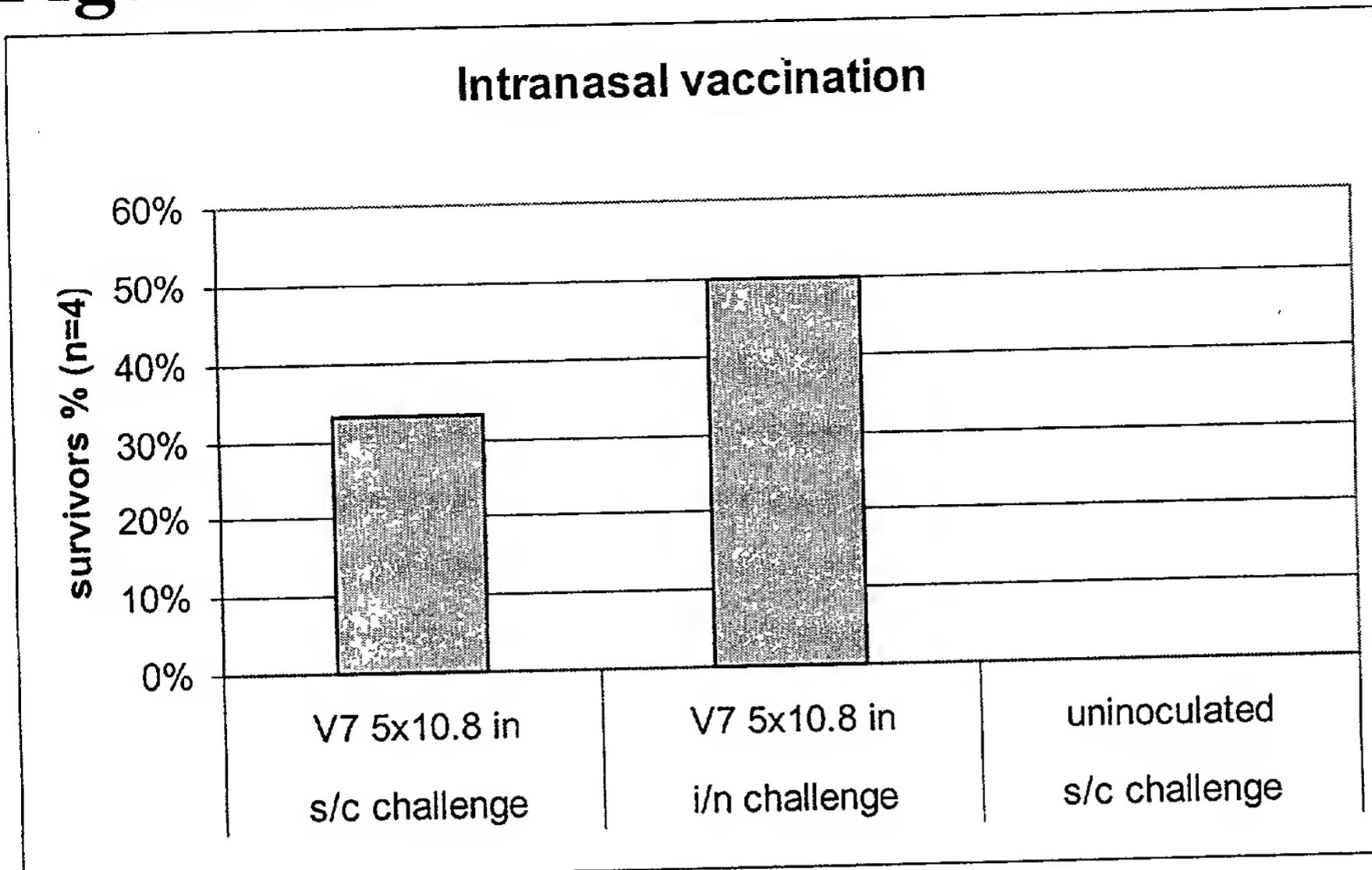
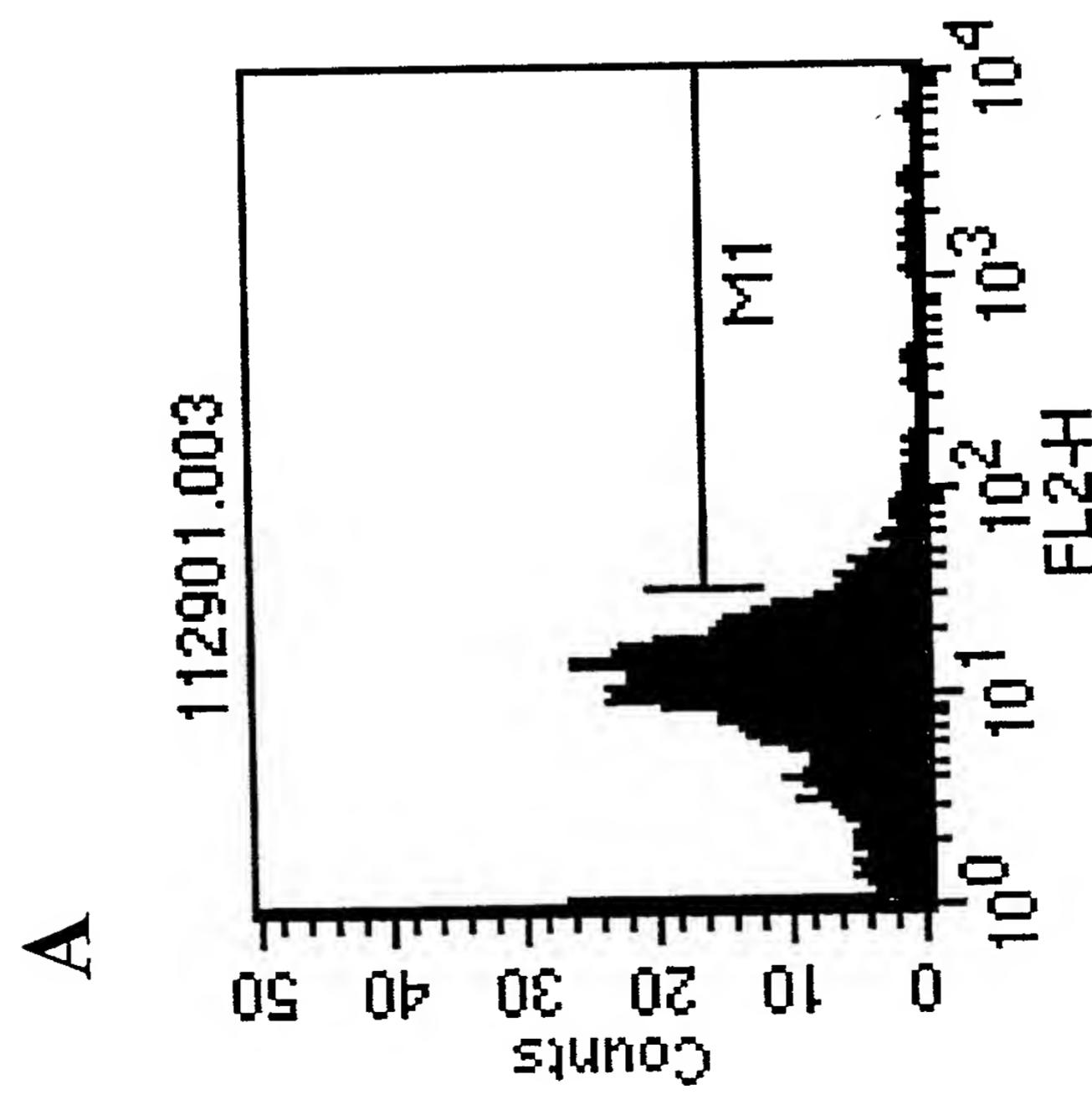


Fig 19



B

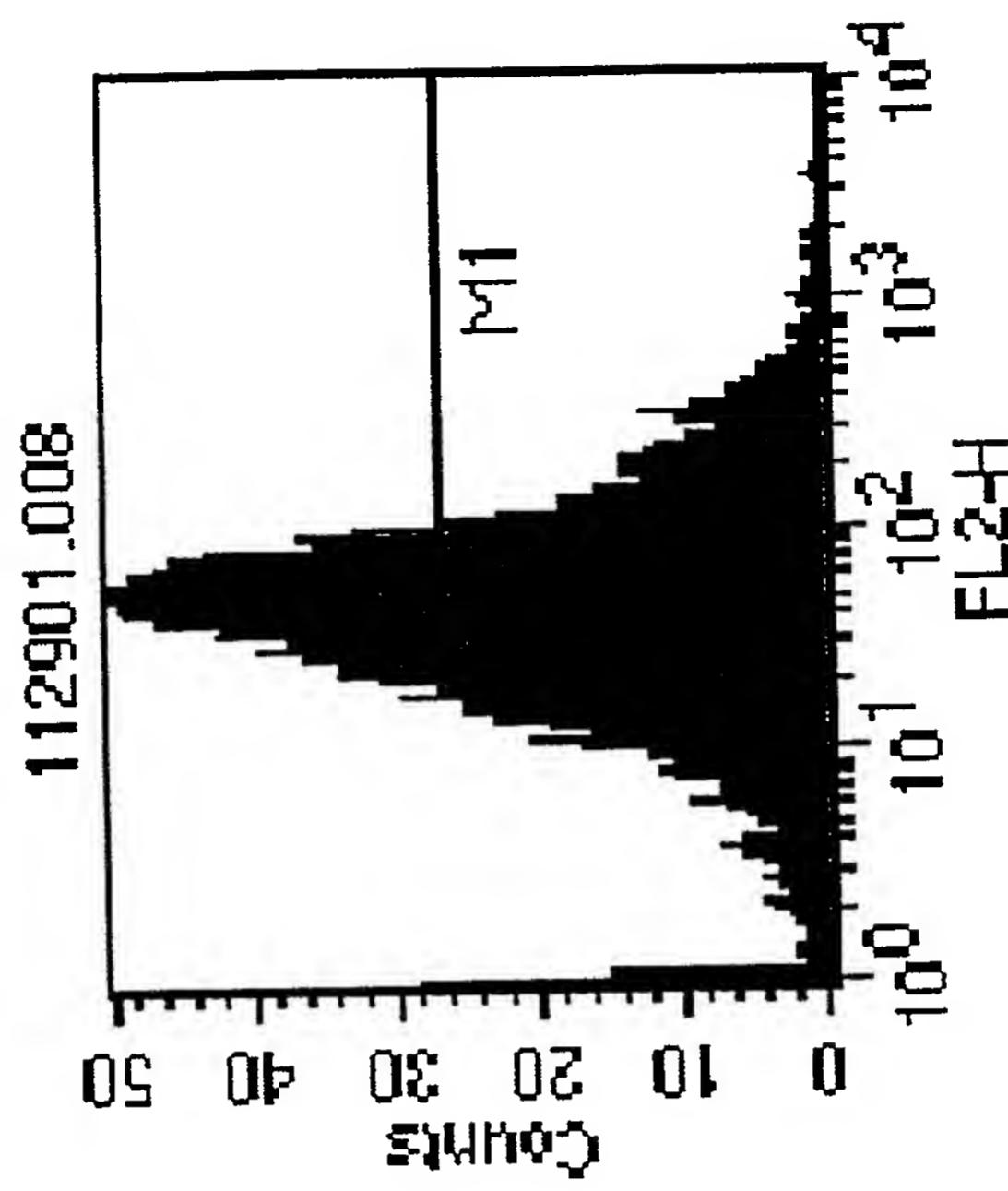


Fig 20

Effect of Cry1Ca Expressed on the Spores of *B.*
subtilis on *Spodoptera exigua* neonates

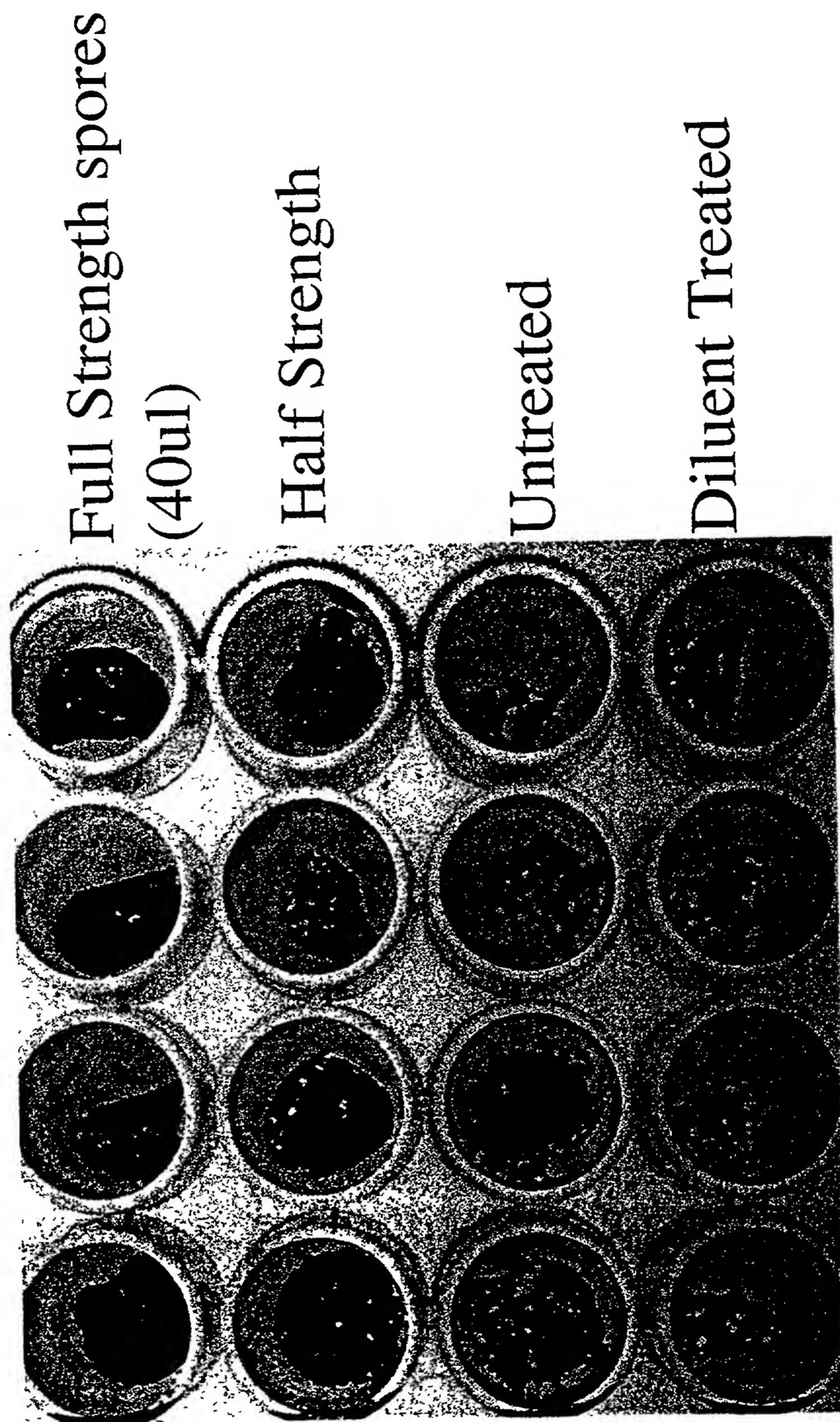


Fig 21

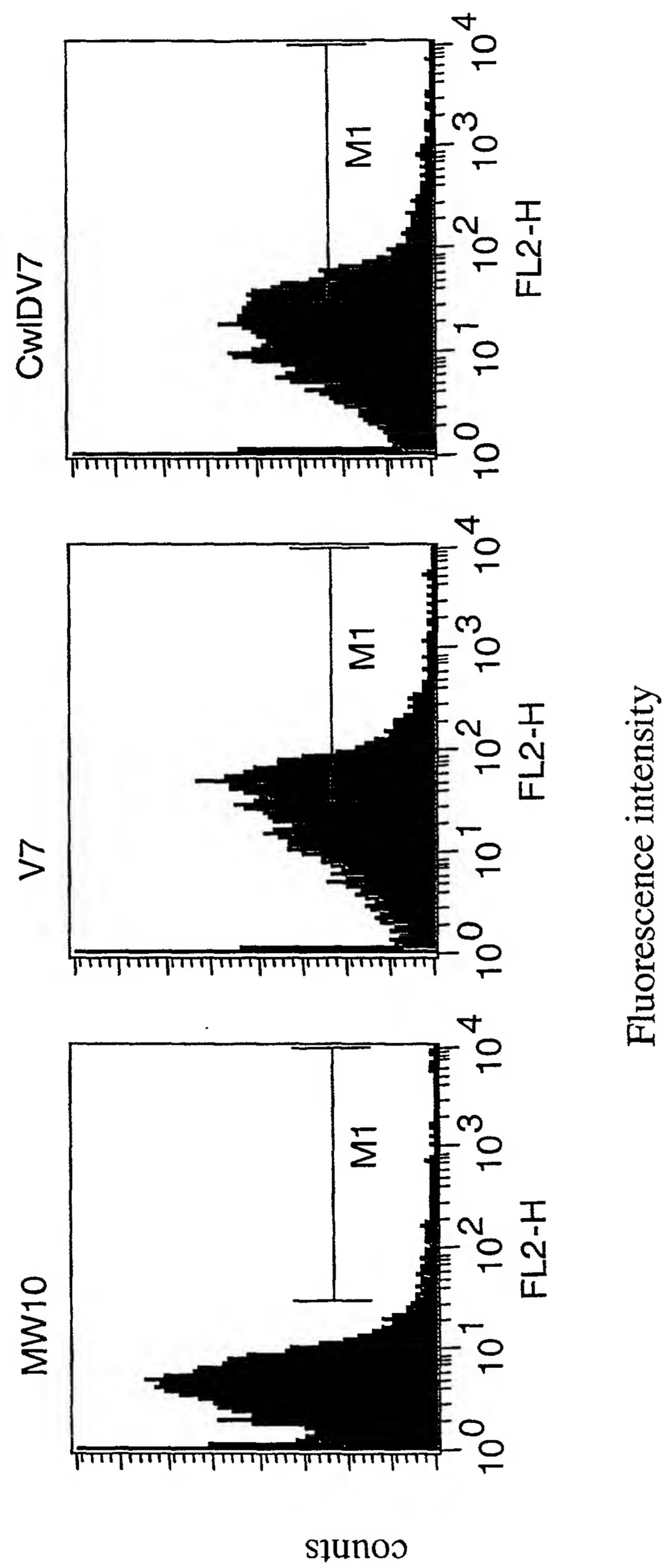


Fig 22

V-antigen Recombinant Spores in Mice

